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INFORMATION DISCLOSURE STATEMENT		Atty Dkt: 3501.115 (2064-181)		Serial No. 10/032,790			
Title: Method and Apparatus for Increasing the Dynamic Range and Accuracy of Binding Assays		Applicant: Daniel A. Keys, et al.					
		Filing Date: 10-24-01		Group			
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p><b>JAN 31 2002</b></p> <p>RECEIVED FEB 05 2002 Technology Center 2100</p> </div> <div>U.S. PATENT DOCUMENTS</div> </div>							
Examiner's Initial	Patent Number	Date	Name	Class	Sub-Class	Filing Date	
GC	AA1	3,791,932	2/12/74	Schuurs, et al.	195	103.5	1/27/72
GC	AB1	4,016,043	4/5/77	Schuurs, et al.	195	103.5	9/4/75
GC	AC1	4,185,084	1/22/80	Mochida, et al.	424	1	10/3/77
GC	AD1	4,243,749	1/6/81	Sadeh, et al.	435	7	3/16/78
GC	AE1	4,313,734	2/2/82	Leuving	23	230	7/13/79
FOREIGN PATENT DOCUMENTS							
	Document Number	Date	Country	Class	Sub-Class	Translation Yes/No	
GC	AL1 EP 177,191	11/22/90	EUROPEAN	G01N	33/537	NO	
GC	AM1 GB 2,084,317		UNITED KINGDOM	G01N	33/54	NO	
	AN1						
OTHERS, including Author, Title, Date, Pertinent Pages, etc.							
GC	AR1	Bass, D.A. et al. "Flow cytometric studies of oxidative product formation by neutrophils: a graded response to membrane stimulation." <i>J. Immunol.</i> 130: 1910-1917.					
	AS1	Bode, W. et al. 1989, "Human leukocyte and porcine pancreatic elastase: X-ray crystal structures, mechanism, substrate specificity and mechanism-based inhibitors," <i>Biochem.</i> 28:1951-1963.					
	AT1	Coates, P.M. et al., 1975, "A preliminary genetic interpretation of the esterase isozymes of human tissues," <i>Ann. Hum. Genet. Lond.</i> 39: 1-20.					
	AR2	Crockard, A. et al., 1982, "Cytochemistry of acid hydrolases in chronic B- and T-cell leukemias," <i>Am. J. Clin. Pathol.</i> 78:437-444.					
GC	AS2	Dujardin F.H., et al., "Quantitative assessment of cortical bone remodelling from routine radiographs of total hip arthroplasty," <i>Med. Eng. Phys.</i> 1996 Sep; 18(6): 489-94.					
Examiner: <i>Dany Court</i>			Date Considered 4-3-03				
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Serial No.  
10/032,790

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Applicant:  
Daniel A. Keys, *et al.*

Filing Date:  
10-24-01

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Examiner's Initial		Patent Number	Date	Name	Class	Sub-Class	Filing Date
h	AA2	4,373,932	2/15/83	Gribnau, <i>et al.</i>	436	501	1/2/81
	AB2	4,401,764	8/30/83	Smith	436	500	2/2/81
	AC2	4,661,444	4/28/87	Li	435	7	3/29/84
	AD2	4,746,631	5/24/88	Clagett	436	518	5/9/85
h	AE2	4,810,096	3/7/89	Russell, <i>et al.</i>	356	436	4/8/87

### FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub-Class	Translation Yes/No

### OTHERS, including Author, Title, Date, Pertinent Pages, etc.

h	AT2	Ferrer-Lopez, P. <i>et al.</i> , "Heparin Inhibits Neutrophil-Induced Platelet Activation Via Cathepsin", <i>J. Lab Clin. Med.</i> 119(3), 231-239 (1992).
h	AR3	Fleischer, B., 1994, "CD26: a surface protease involved in T-cell activation," <i>Immunol. Today</i> 15: 180-184.
	AS3	Fowler A., <i>et al.</i> , "A multi-modality assay platform for ultra-high throughput screening," <i>Curr. Pharm. Biotechnol.</i> 2000 Nov;1(3):265-81.
	AT3	Gartner, T.K. <i>et al.</i> , 1985, "The tetrapeptide analogue of the alpha chain and decapeptide analogue of the gamma chain of fibrinogen bind to different sites on the platelet fibrinogen receptor," <i>Blood</i> 66 Suppl 1: 305a.
h	AR4	Hegen, M. <i>et al.</i> , 1993, "Enzymatic activity of CD26 (dipeptidylpeptidase IV) is not required for its signalling function in T cells," <i>Immunobiology</i> 189: 483-493.

Examiner: Gary Counts Date Considered: 7-3-03

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bl	AA3	5,198,670	3/30/93	VanCauter, et al.	250	328	9/29/89
bl	AB3	5,306,468	4/26/94	Anderson, et al.	422	101	7/19/91
	AC3	5,501,985	3/26/96	Baughner, et al.	436	518	4/21/94
	AD3	5,563,036	10/8/96	Peterson, et al.	435	6	4/29/94
bl	AE3	5,599,668	2/4/97	Stimpson, et al.	435	6	9/22/94
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bl	AS4	Hoffmann, T. <i>et al.</i> 1993, "Dipeptidyl peptidase IV (CD 26) and aminopeptidase N (CD 13) catalyzed hydrolysis of cytokines and peptides with N-terminal cytokine sequences," <i>FEBS Letters</i> 336: 61-64.					
	AT4	Hohn, P.A. <i>et al.</i> , 1989, "Genomic organization and chromosomal localization of the human cathepsin G gene," <i>J. Biol. Chem.</i> 264: 13412-13419.					
	AR5	Houze T.A., <i>et al.</i> , "Detection of thymidylate synthase gene expression levels in formalin-fixed paraffin embedded tissue by semiquantitative, nonradioactive reverse transcriptase polymerase chain reaction," <i>Tumour Biol.</i> 1997;18(1):53-68.					
	AS5	Jongkind, J.F. <i>et al.</i> , 1986, "Detection of acid-b-galactosidase activity in viable human fibroblasts by flow cytometry," <i>Cytometry</i> 7:463-466.					
	AT5	Kankaanranta, H. <i>et al.</i> , 1994, "Effects of non-steroidal anti-inflammatory drugs on polymorphonuclear leukocyte functions in vitro: focus on fenamates," <i>Naunyn-Schmiedeberg's Arch Pharmacol.</i> 350:685-691.					
bl	AR6	Kohen, E. <i>et al.</i> , 1993, "An in situ study of beta-glucosidase activity in normal and gaucher fibroblasts with fluorogenic probes," <i>Cell Biochem. and Function</i> 11:167-177.					
Examiner: <i>Dary Gantz</i>				Date Considered 4-3-02			
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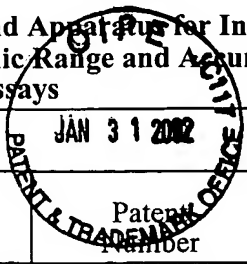
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be	AA4	5,627,080	5/6/97	Cheng, et al.	436	534	7/29/94
	AB4	5,633,141	5/27/97	Lee, et al.	435	7.2	4/7/95
	AC4	5,679,525	10/21/97	Peterson, et al.	435	6	7/17/96
	AD4	5,691,147	11/25/97	Draetta, et al.	435	7.1	6/2/94
be	AE4	5,698,411	12/16/97	Lucas, et al.	435	29	5/18/95

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	Document Number	Date	Country	Class	Sub-Class	Translation Yes/No	

OTHERS, including Author, Title, Date, Pertinent Pages, etc.		
be	AS6 ✓	Kojima, K. <i>et al.</i> , 1979, "A new and highly sensitive fluorescence assay for collagenase-like peptidase activity," <i>Anal. Biochem.</i> 100: 43-50.
	AT6 ✓	Li, C.Y. <i>et al.</i> , 1970, "Acid phosphatase isoenzyme in human leukocytes in normal and pathologic conditions," <i>J. Histochem. Cytochem.</i> 18:473-481.
	AR7 ✓	Manzella S.M., <i>et al.</i> "A biphasic radiometric assay of glycogenin using the hydrophobic acceptor n-dodecyl-beta-D-maltoside," <i>Anal. Biochem.</i> 1994 Feb 1;216(2):383-91.
	AS7 ✓	McDonald, J.A. <i>et al.</i> , 1980, "Degradation of fibronectin by human leukocyte elastase," <i>J. Biol. Chem.</i> 255: 8848-8858.
	AT7 ✓	Mentlein, R. <i>et al.</i> , H. R., "Influence of Pregnancy on Dipeptidyl Peptidase IV Activity (CD26 Leukocyte Differentiation Antigen) of Circulating Lymphocytes", <i>Eur. J. Clin. Chem. Clin. Biochem.</i> , 29, 477-480 (1991).
be	AR8 ✓	Messler P., <i>et al.</i> , "Instrumentation for multiwavelengths excitation imaging," <i>J. Neurosci. Methods</i> 1996 Nov;69(2):137-47).

Examiner: <i>Dany Counts</i>	Date Considered 4-3-03
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Ge	AA5	5,747,352	5/5/98	Yan, <i>et al.</i>	436	533	5/23/94
	AB5	5,754,229	5/19/98	Elabd	348	319	11/14/95
	AC5	5,772,926	6/30/98	Akhavan-Tafti	252	700	5/13/97
	AD5	5,811,526	9/22/98	Davidson	530	391.3	5/23/95
Ge	AE5	5,843,651	12/1/98	Stimpson, <i>et al.</i>	435	6	5/2/95
<b>FOREIGN PATENT DOCUMENTS</b>							
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<b>OTHERS, including Author, Title, Date, Pertinent Pages, etc.</b>							
Ge	AS8 ✓	Rotman, B. <i>et al.</i> , 1963, "Fluorogenic substrates for b-D-galactosidases and phosphatases derived from fluorescein (3,6-dihydroxyfluoran) and its monomethyl ether," <i>Proc. Nat. Acad. Sci. USA</i> 50:1-6.					
	AT8 ✓	Royer, G. <i>et al.</i> , "Immobilized Derivatives of Leucine Aminopeptidase and Aminopeptidase M.," <i>J. Biol. Chem.</i> 248(5), 1807-1812 (1973).					
	AR9 ✓	Ruiz, P. <i>et al.</i> , 1996, "Cytofluorographic evidence that thymocyte dipeptidyl peptidase IV (CD26) activity is altered with stage of ontogeny and apoptotic status," <i>Cytometry</i> 23: 322-329.					
	AS9 ✓	Sanderink, G.J., <i>et al.</i> , 1988, "Human Aminopeptidases: A Review of the Literature." <i>J. Clin. Chem. Clin. Biochem.</i> 26: 795-807.					
Ge	AT9 ✓	Schon, E. <i>et al.</i> , "The role of dipeptidyl peptidase IV in human T lymphocyte activation. Inhibitors and antibodies against dipeptidyl peptidase IV suppress lymphocyte proliferation and immunoglobulin synthesis in vitro," <i>Eur. J. Immunol.</i> 1987 Dec;17(12):1821-6.					
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U.S. PATENT DOCUMENTS							
Examiner's Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date	
lc	AA6	5,851,778	12/22/98	Oh, et al.	435	7.9	4/2/97
	AB6	5,876,935	3/2/99	Pankratz, et al.	435	6	1/8/97
	AC6	5,965,736	10/21/99	Akhavan-Tafti	548	110	12/9/98
	AD6	5,976,822	11/2/99	Landrum, et al.	435	23	8/20/97
	AE6	6,045,727	4/4/00	Akhavan-Tafti, et al	252	700	1/15/97

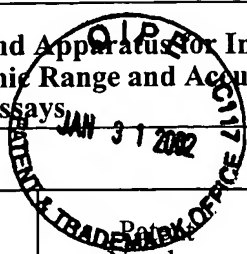
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OTHERS, including Author, Title, Date, Pertinent Pages, etc.		
lc	AR10	Stein, R.L. et al. 1987, "Catalysis by human leukocyte elastase: Mechanistic insights into specificity requirements," <i>Biochem.</i> 26:1301-1305.
lc	AS10	Stein, R.L. et al. 1987, "Catalysis by human leukocyte elastase: Proton inventory as a mechanistic probe," <i>Biochem.</i> 26:1305-1314.
	AT10	Tanaka, T. et al., 1993, "The costimulatory activity of the CD26 antigen requires dipeptidyl peptidase IV enzymatic activity," <i>Proc. Natl. Acad. Sci. USA</i> 90: 4586-4590.
	AR11	Thiele, D.L. et al., 1990, "Mechanism of L-leucyl-L-leucine methyl ester-mediated killing of cytotoxic lymphocytes: Dependence on a lysosomal thiol protease, dipeptidyl peptidase I, that is enriched in these cells," <i>Proc. Natl. Acad. Sci. USA</i> 87: 83-87.
lc	AS11	Weiss, S.J. 1989, "Tissue destruction by neutrophils," <i>N. Eng. J. Med.</i> 320: 365-376.

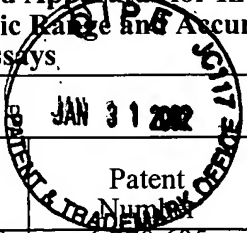
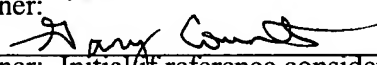
Examiner: Gary Cooke	Date Considered: 4-3-03
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GC	AA7	6,045,991	4/4/00 Akhavan-Tafti
	AB7	6,139,782	10/31/00 Akhavan-Tafti, et al
	AC7	6,177,958	1/23/01 Anderson
	AD7	6,212,291	4/3/01 Wang, et al.
	AE7	6,218,137	4/17/01 Akhavan-Tafti, et al
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GC	AT11	Whitlock, C.A., <i>et al.</i> , 1987. "Bone marrow stromal cell lines with lymphopoietic activity express high levels of a pre-B neoplasia-associated molecule," <i>Cell</i> 48: 1009-1021.	
GC	AR12	Woessner, J.F. Jr., 1991, "Matrix metalloproteinases and their inhibitors in connective tissue remodeling," <i>FASEB J.</i> 5: 2145-2154.	
GC	AS12	Wu, Q. <i>et al.</i> , 1991. "Aminopeptidase A activity of the murine B-lymphocyte differentiation antigen BP-1/6C3," <i>Proc. Natl. Acad. Sci, USA</i> 88: 676-680.	
Examiner: <i>Darryl Court</i>		Date Considered <i>4-3-03</i>	
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GR	AB8	6,090,571	7/18/00	Akhavan-Tafti, et al	435	21	7/21/99
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